Southwest Educational Media Foundation of Texas, Inc.
T. Kent Atkins, Ph.D., President
2921 Brown Trail, Suite 140
Bedford, Texas 76021
(817) 498-7001 FAX (817) 281-9169

Mrs. Donna Searcy, Secretary
Federal Communications Commission
1919 M. Street, N.W.
Washington, D.C. 20554

DUPLICATE

August 7, 1992

RE: Construction Permit Number: BMPED-880308MI

Dear Mrs. Searcy,

Transmitted herewith is an urgent **Application for Expedited Modification of Construction Permit** for radio station KENT-FM. This station serves the city of Odessa, Texas. Our tower landlord, Bowen-Smith Corp., of Houston, Texas has notified us by certified letter, (see enclosure), that their tower must be moved due to circumstances beyond their control. Our lease expired July 30, 1992.

We have located another tower to lease within a very short distance from the original site. This site relocation will be classified as a minor modification according to Commission Rules.

Please note that since this is a non-commercial educational license that no filing fee is required.

If you should have any further questions about this application please contact Mr. James L. Oyster, Esq., at 703-937-4800.

Yours truly,

T. Kent Atkins

BOWEN
SMITH
CORP.

MAX BOWEN
Chief Executive Officer
JOHN G. HIGGINS
President
ROMEO LAUREL
Vice President -
Chief Executive Officer
DOUG IRVING
Vice President - Rentals

THE LEADING TOWER SPACE RENTAL COMPANY

January 28, 1992

Mr. Kent Adkins
Southwest Education Media
Foundation of Texas, Inc.
2921 Brown Trail #140
Bedford, Texas 76021

Reference: Odessa, Texas Radio Tower Site

Dear Mr. Adkins;

Please be advised that July 30, 1992 your License Agreement with Bowen-Smith Corp. will expire. Thus, Bowen-Smith Corp. will be terminating this Agreement in accordance with paragraph (2) two.

Mr. Adkins, we are extending you more than a 90 day written notice of our intentions to terminate the Agreement out of common courtesy. Due to circumstances beyound our control, the tower must be removed from the leased land.

Regards,

BOWEN-SMITH CORP.

Doug Irving
Vice-President, Rentals

DI/ct
Certified # P 690 487 417

12454 OLD GALVESTON RD. WEBSTER, TX 77598 (713) 486-7431

Federal Communications Commission
Washington, D. C. 20554

FCC 340

Approved by OMB
3060-0034
Expires 4/30/92
See Page 23 for information regarding public burden estimate

APPLICATION FOR CONSTRUCTION PERMIT FOR NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

(Carefully read instructions before filing form) Return only form to FCC

RECEIVED
AUG 11 1992
FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

For Commission Use Only
File No. BPED-920811IA

Section I - GENERAL INFORMATION

1. Name of Applicant			Send notices and communications to the following person at the address below:		
Southwest Educational Media Foundation of Texas, Inc.			Name: T. Kent Atkins		
Street Address or P.O. Box: 2921 Brown Trail, Suite 140			Street Address or P.O. Box: 2921 Brown Trail, Suite 140		
City	State	ZIP Code	City	State	ZIP Code

Section V-B - FM BROADCAST ENGINEERING DATA	FOR COMMISSION USE ONLY File No. _____ ASB Referral Date _____ Referred by _____

Name of Applicant

Southwest Educational Media Foundation of Texas, Inc.

Call letters *(if issued)*	Is this application being filed in response to a window? ☐ Yes ☒ No
KENT-FM	If Yes, specify closing date: _____

Purpose of Application: *(check appropriate boxes)*

- ☐ Construct a new (main) facility
- ☐ Construct a new auxiliary facility
- ☒ Modify existing construction permit for main facility
- ☐ Modify existing construction permit for auxiliary facility
- ☐ Modify licensed main facility
- ☐ Modify licensed auxiliary facility

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- ☐ Antenna supporting-structure height
- ☐ Effective radiated power
- ☐ Antenna height above average terrain
- ☐ Frequency
- ☒ Antenna location
- ☐ Class
- ☐ Main Studio location
- ☐ Other *(Summarize briefly)*

File Number(s) 840731IE; BMPED-880308MI

1. Allocation:

Channel No.	Principal community to be served:		
	City	County	State
213	Odessa	Ector	TX

Class *(check only one box below)*

☐ A ☐ B1 ☐ B ☐ C3
☒ C2 ☐ C1 ☐ C ☐ D

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.

9.5 Miles West of Odessa on 27th Street.

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	°	'	"	Longitude	°	'	"
	31	50	58		102	32	19

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ☒ Yes ☐ No

If Yes, give call letter(s) or file number(s) or both. KNFX 978 File No: 305816

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.

_____

SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates? ☐ Yes ☒ No
If Yes, list old coordinates.

Latitude ° ' "	Longitude ° ' "

5. Has the FAA been notified of the proposed construction? ☐ Yes ☒ No
If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available. The antenna will be side mounted on an existing tower Exhibit No.

Date _____ Office where filed _____

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

	Landing Area	Distance (km)	Bearing (degrees True)
(a)	None		
(b)			

7. (a) Elevation: *(to the nearest meter)*

(1) of site above mean sea level; 929.64 meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 155.14 meters

(3) of the top of supporting structure above mean sea level [(a)(1) + (a)(2)] 1084.78 meters

(b) Height of radiation center: *(to the nearest meter)* H = Horizontal; V = Vertical

(1) above ground 133.3 meters (H)

133.3 meters (V)

(2) above mean sea level [(a)(1) + (b)(1)] 1062.9 meters (H)

1062.9 meters (V)

(3) above average terrain 137.8 meters (H)

137.8 meters (V)

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator. Exhibit No. E-1

9. Effective Radiated Power:
(a) ERP in the horizontal plane 6.5 kw (H*) 6.5 kw (V*)

(b) Is beam tilt proposed? ☐ Yes ☒ No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field. Exhibit No. N/A

_____ kw (H*) _____ kw (V*)

*Polarization

SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 3)

10. Is a directional antenna proposed? ☐ Yes ☒ No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of horizontally and vertically polarized radiated components in terms of relative field. Exhibit No.

11. Will the main studio be located within the 70 dBu or 3.16 mV/m contour? ☒ Yes ☐ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125. Exhibit No.

12. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast *(except citizens band or amateur)* radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference? ☒ Yes ☐ No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. *(See 47 C.F.R. Sections 73.315(b), 73.316(d) and 73.318.)* Exhibit No. E-2

13. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction D for Section V. Further, the map must clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers. Exhibit No. E-3

14. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers: Exhibit No. E-4

(a) the proposed transmitter location, and the radials along with profile graphs have been prepared;

(b) the 1 mV/m predicted contour and, for noncommercial educational applicants applying on a commercial channel, the 3.16 mV/m contour; and

(c) the legal boundaries of the principal community to be served.

15. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area 3441.8 sq. km. Population 121,666

16. Attach as an Exhibit a map *(Sectional Aeronautical charts where obtainable)* showing the present and proposed 1 mV/m (60 dbu) contours. Exhibit No. E-5

Enter the following from Exhibit above:

Gain Area 145.08 sq. mi.
Loss Area 159.41 sq. mi.

Percent change (gain area plus loss area as percentage of present area) 23 %.
If 50% or more this constitutes a major change. Indicate in question 2(c), Section I, accordingly.

17. For an application involving an auxiliary facility only, attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No. N/A

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license. See 47 C.F.R. Section 73.1675. (File No.: _____)

18. Terrain and coverage data *(to be calculated in accordance with 47 C.F.R. Section 73.313).*

Source of terrain data: *(check only one box below)*

[X] Linearly interpolated 30-second database [ ] 7.5 minute topographic map

(Source: DataWorld)

[ ] Other *(briefly summarize)*

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances to the 1 mV/m contour (kilometers)
0	See enclosed Exhibit E-6	
45		
90		
135		
180		
225		
270		
315		

Allocation Studies

(See Subpart C of 47 C.F.R. Part 73)

19. Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States and Mexico? [X] Yes [ ] No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Agreement between the United States of America and the United Mexican States concerning Frequency Modulation Broadcasting in the 88 to 108 MHz band. Please see exhibit E-4 in BMPED-880308MI. This propsal actually put the trans mitter slightly further from the border. In any event the change in site location is deminimus.

Exhibit No.

20. Is the proposed antenna location within 320 kilometers of the common border between the United States and Canada? ☐ Yes ☒ No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Working Agreement for Allocation of FM Broadcasting Stations on Channels 201-300 under The Canada-United States FM Agreement of 1947. Exhibit No. N/A

21. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), or if this proposed operation is for a class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz), attach as an Exhibit a complete allocation study to establish the lack of prohibited overlap of contours with other U.S. stations. The allocation study should include the following: Please see allocation study for BMPED-88038MI. Exhibit No.

(a) The normally protected interference-free and the interfering contours for the proposed operation along all azimuths.
(b) Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused.
(c) Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received.
(d) Normally protected and interfering contours over pertinent arcs, of all other proposals and existing stations, which require study to show the absence of objectionable interference.
(e) Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers and operating or proposed facilities.
(f) When necessary to show more detail, an additional allocation study will be attached utilizing a map with a larger scale to clearly show interference or absence thereof.
(g) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire Exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
(h) The name of the map(s) used in the Exhibit(s).

22. With regard to any stations separated by 53 or 54 channels (10.6 or 10.8 MHz) attach as an Exhibit information required in 1/ *(separation requirements involving intermediate frequency (i.f.) interference).* Exhibit No.

Please see BMPED-88038MI

23.(a) Is the proposed operation on Channel 218, 219, or 220? ☐ Yes ☒ No

(b) If the answer to (a) is yes, does the proposed operation satisfy the requirements of 47 C.F.R. Section 73.207? ☐ Yes ☐ No

(c) If the answer to (b) is yes, attach as an Exhibit information required in 1/ regarding separation requirements with respect to stations on Channels 221, 222 and 223. Exhibit No. N/A

(d) If the answer to (b) is no, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose. Exhibit No. N/A

1/ A showing that the proposed operation meets the minimum distance separation requirements. Include existing stations, proposed stations, and cities which appear in the Table of Allotments; the location and geographic coordinates of each antenna, proposed antenna or reference point, as appropriate; and distance to each from proposed antenna location.

SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 6)

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No. N/A

(1) Protected and interfering contours, in all directions (360°), for the proposed operation.
(2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as transmitter location.
(3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
(4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
(5) The official title(s) of the map(s) used in the exhibits(s).

24. Is the proposed station for a channel in the range from Channel 201 to 220 (88.1 through 91.9 MHz) and the proposed antenna location within the distance to an affected TV Channel 6 station(s) as defined in 47 C.F.R. Section 73.525?

☐ Yes ☒ No

If Yes, attach as an Exhibit either a TV Channel 6 agreement letter dated and signed by both parties or a map and an engineering statement with calculations demonstrating compliance with 47 C.F.R. Section 73.525 for each affected TV Channel 6 station.

Exhibit No. N/A

25. Is the proposed station for a channel in the range from Channel 221 to 300 (92.1-107.9 MHz)?

☐ Yes ☒ No

If Yes, attach as an Exhibit information required in 1/. *(Except for Class D (secondary) proposals.)*

Exhibit No. N/A

26. Environmental Statement *(See 47 C.F.R. Section 1.1301 et seq.)*

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact?

☐ Yes ☒ No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.

Exhibit No.

If No, explain briefly why not.

This antenna is to be side mounted on an existing which is presently in use by several two-way and paging systems.

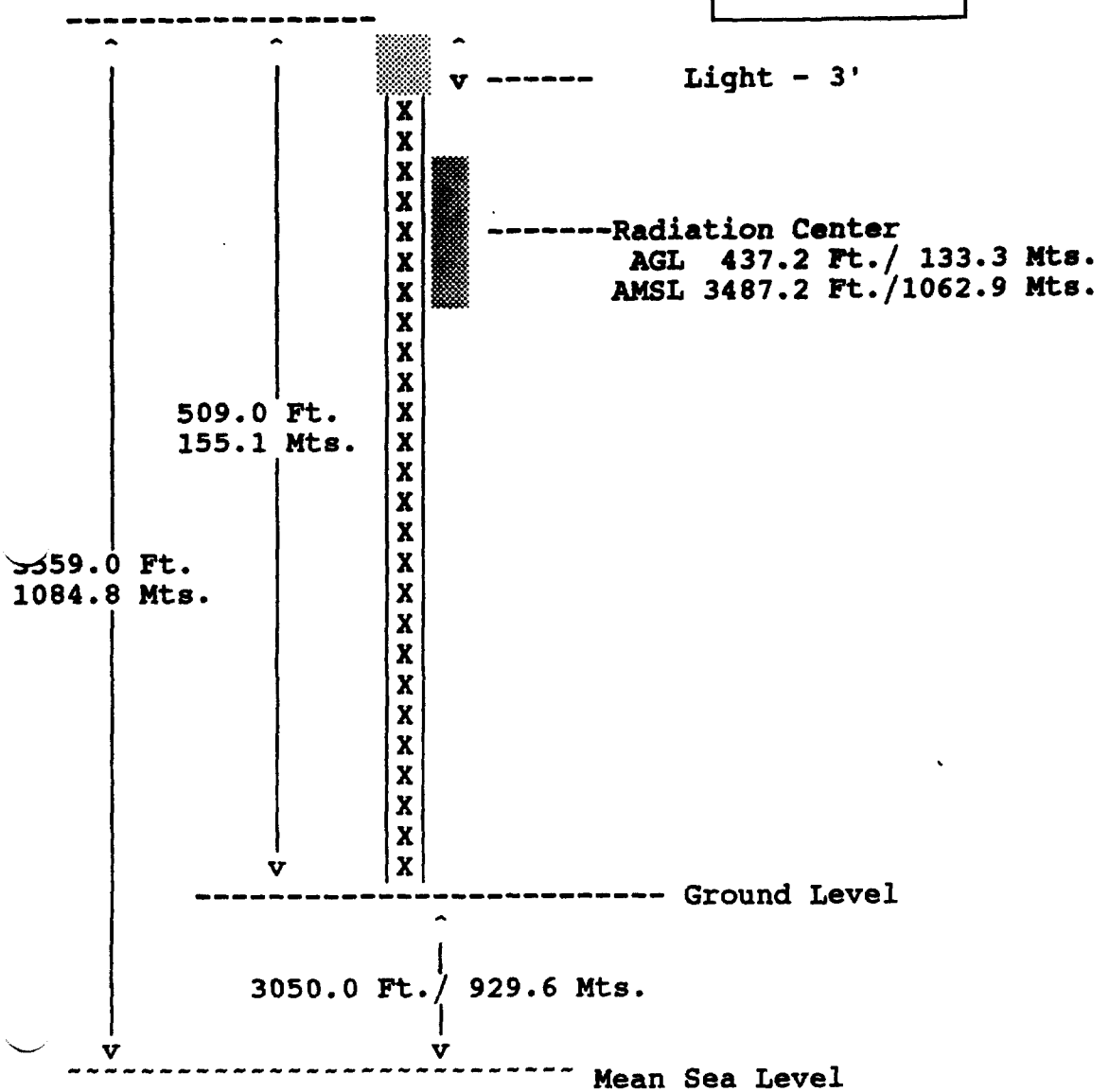
CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name *(Typed or Printed)*	Relationship to Applicant *(e.g., Consulting Engineer)*
T. Kent Atkins	Applicant
Signature: T. Kent Atkins	Address *(Include ZIP Code)*: 2921 Brown Trail, Suite 140 Bedford, TX 76021
Date: 8/7/92	Telephone No. *(Include Area Code)*: (817) 498-7001

Vertical Plan Sketch of Total Structure Channel 213 Class C2

Exhibit E-1



NOTE : NOT TO SCALE

Element Depictions are Purely Symbolic

Shively Laboraties FM Antenna Model 6810
4 Bays - Power Gain 2.15 (3.32 db)
Vertical Apperture 37 Feet

Odessa Texas CRS #6
Southwest Educational Media

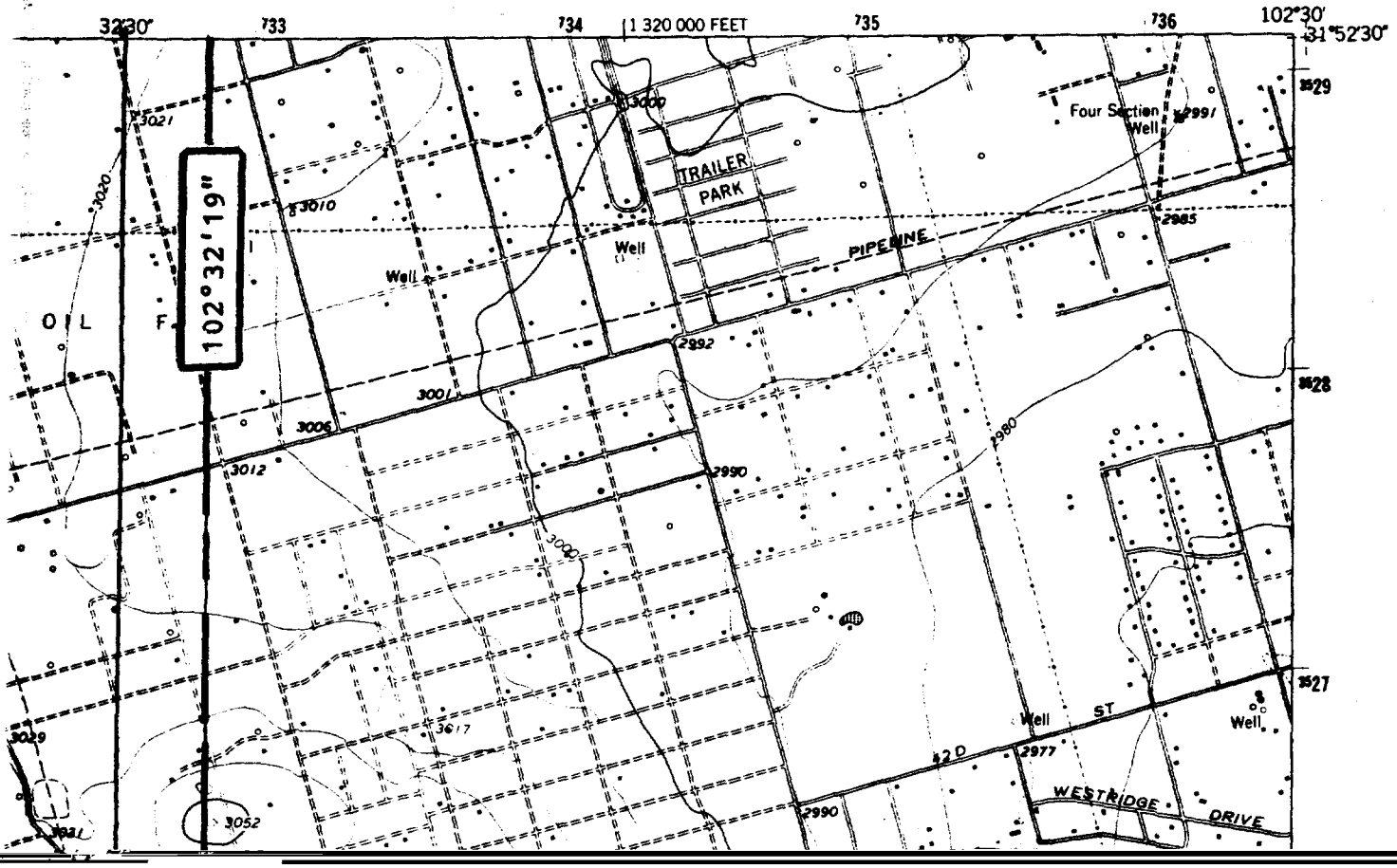
EXHIBIT E-2

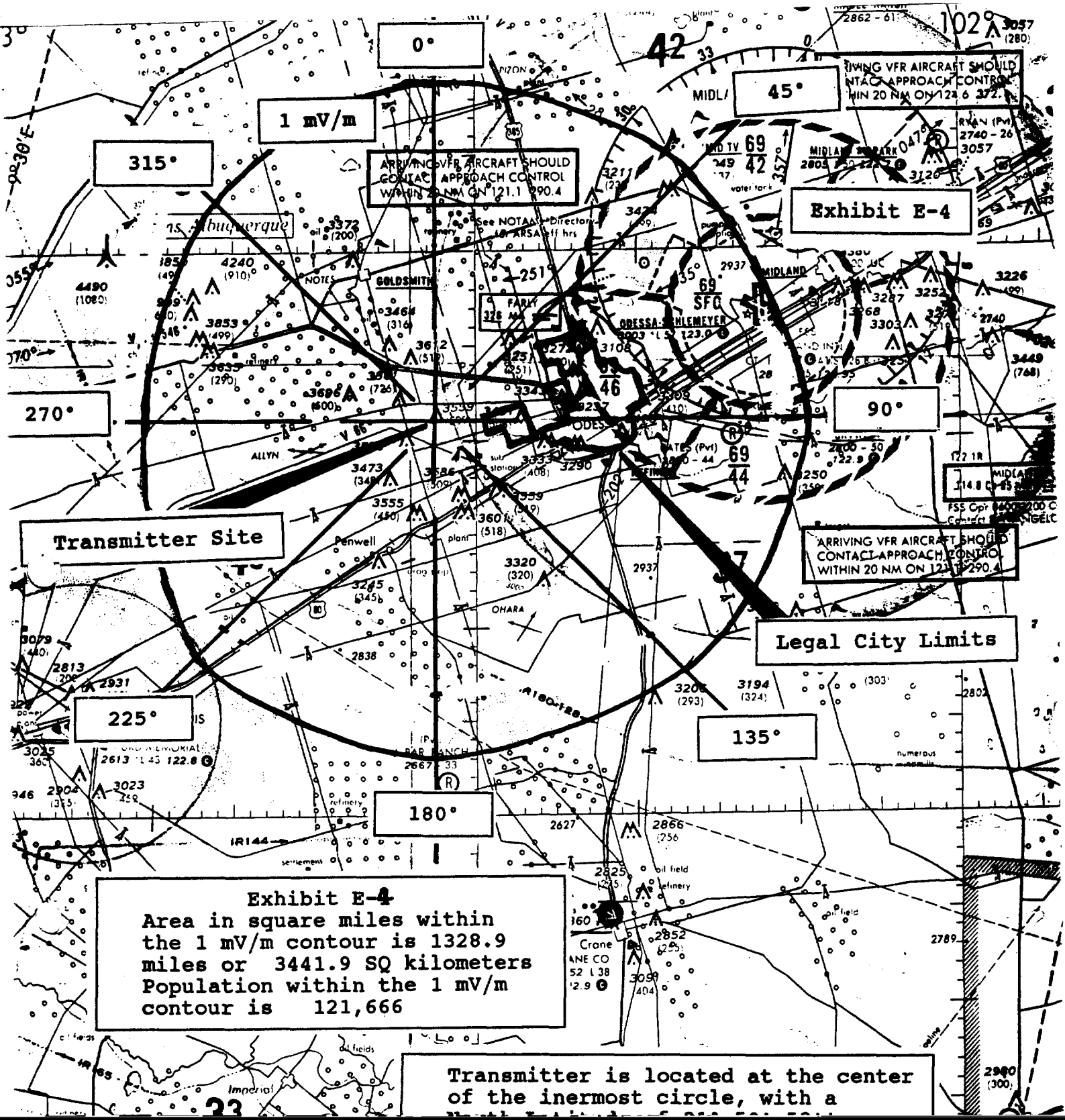
August 1992

The Proposed facility will utilize an existing tower that is currently used for 2-way, paging, or other business radio operations. However, the Applicant will assume full responsibility for the elimination of any interference to other existing stations within the general vicinity.

Exhibit E-3

DOURO QUADRANGLE
TEXAS-ECTOR CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)




0°
45°
90°
135°
180°
225°
270°
315°
1 mV/m
Exhibit E-4
Transmitter Site
Legal City Limits
ARRIVING VFR AIRCRAFT SHOULD CONTACT APPROACH CONTROL WITHIN 20 NM ON 121.1 290.4
ARRIVING VFR AIRCRAFT SHOULD CONTACT APPROACH CONTROL WITHIN 20 NM ON 121.1 290.4
Exhibit E-4
Area in square miles within the 1 mV/m contour is 1328.9 miles or 3441.9 SQ kilometers
Population within the 1 mV/m contour is 121,666
Transmitter is located at the center of the inermost circle, with a

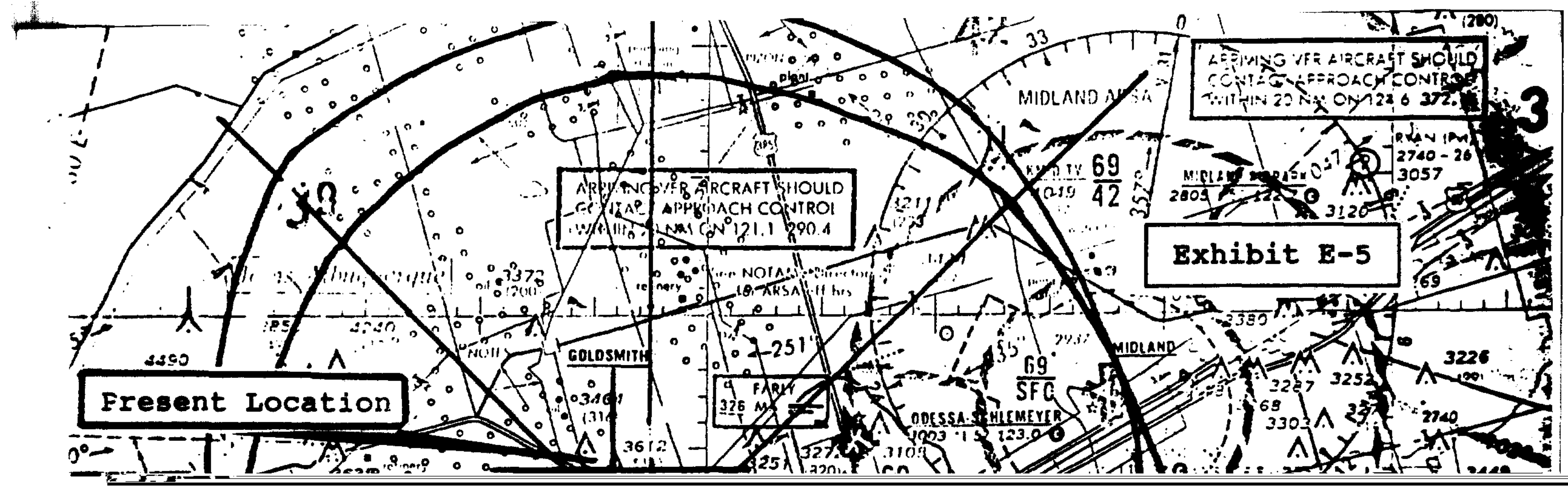
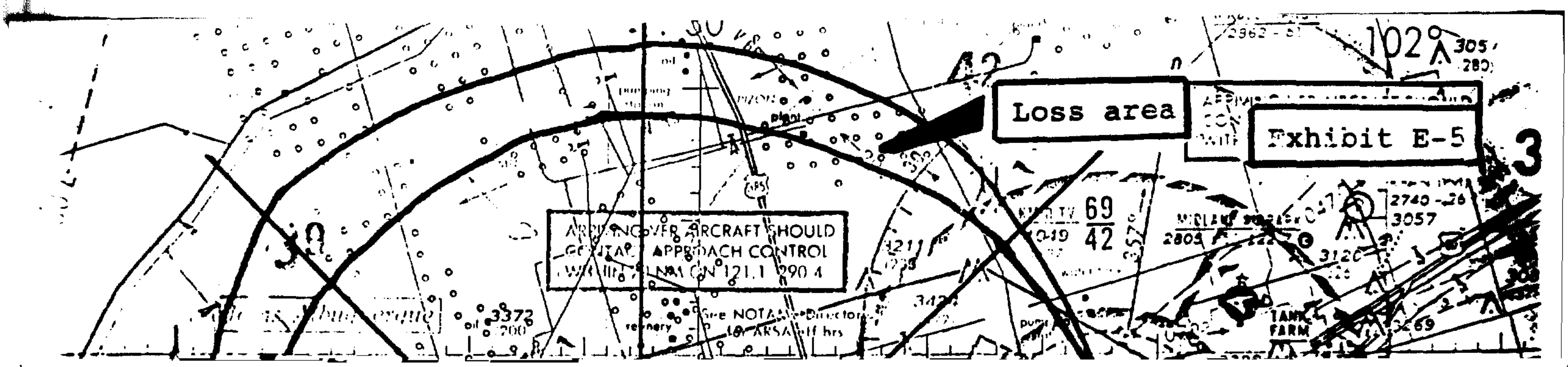
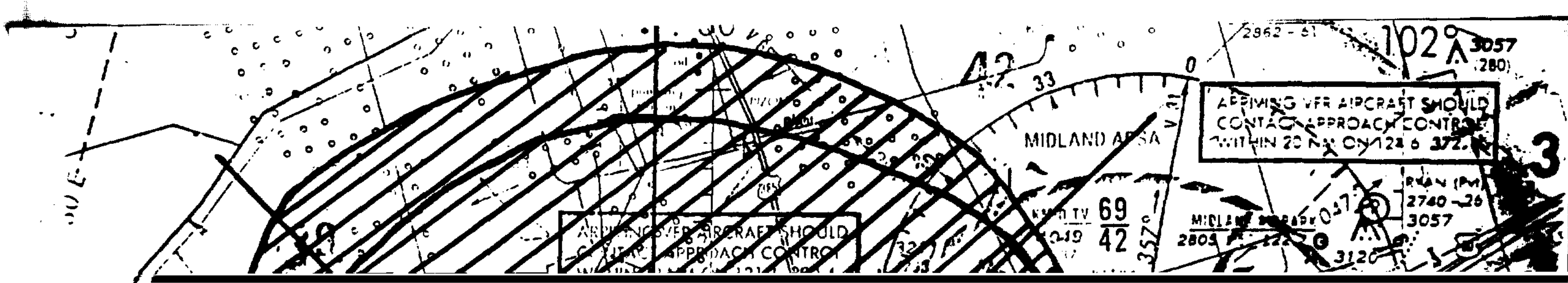


Exhibit E-5
Present Location
MIDLAND ARSA
MIDLAND
GOLDSMITH
ODESSA-SCHLEMEYER
3057
3120
3226
3252
2740
3303
3461
3612
4490
4240
3372
2805
2380


Loss area
Exhibit E-5


102°
3057
33
MIDLAND
69
42
2740
3057
3120

August 6, 1992

Exhibit E-6

Section V-B, 15 Of FCC Form 340

Southwest Educational Media

Odessa Texas CRS #6

Channel 213 Class C2

Bearing	Average Terrain Radial (ft/mt)	Radiation Center A.A.T. (ft/mt)	3.16 mV/m (70 dBu) (mi/km)	1 mV/m (60 dBu) (mi/km)
0	3038.4/ 926.1	448.8/ 136.8	12.1/ 19.4	20.5/ 32.8
45	2970.1/ 905.3	517.1/ 157.6	13.0/ 20.8	21.9/ 35.0
90	2926.5/ 892.0	560.7/ 170.9	13.6/ 21.8	22.6/ 36.2
135	2988.8/ 911.0	498.4/ 151.9	12.8/ 20.5	21.5/ 34.4
180	3036.1/ 925.4	451.1/ 137.5	12.2/ 19.5	20.6/ 33.0
225	3040.7/ 926.8	446.5/ 136.1	12.1/ 19.4	20.5/ 32.8
270	3170.3/ 966.3	316.9/ 96.6	10.2/ 16.3	17.6/ 28.2
315	3110.6/ 948.1	376.6/ 114.8	11.1/ 17.8	19.0/ 30.4

The Center Of Radiation Above Mean Sea Level is 3487.2 Feet or 1062.9 Meters

The Average Terrain Elevation is 3035.2 Feet or 925.1 Meters

The Radiation Center Above Average Terrain (HAAT) is 452.0 Feet or 137.8 Meters

The Area Within the 1 mV/m Contour is 1328.9 Miles or 3441.8 Kilometers

Population count based on 1990 Census

Title: ODESSA POPULATION Coordinates: 31-50-58 102-32-19

1 mV/m
60 DBU

Totals for Andrews County (1990 Census):	6
Totals for Crane County (1990 Census):	98
Totals for Ector County (1990 Census):	118,932
Totals for Midland County (1990 Census):	2,630
Totals for Texas (1990 Census):	121,666
Total Population (1990 Census):	121,666
Area (Square km):	3441.8

T. Kent Atkins

Dallas, Texas August 6, 1992

Terrain Averages from NGDC 30-second Topographic database

Job Title: ODESSA TEXAS KENT-FM

Latitude: 31-50-58
Longitude: 102-32-19

Bearing (Degrees true)	3.0 to 16.0 kilometer average terrain elevation (meters)	3.0 to 16.0 kilometer average terrain elevation (feet)
.0	926.1	3038.4
45.0	905.3	2970.1
90.0	892.0	2926.5
135.0	911.0	2988.8
180.0	925.4	3036.1
225.0	926.8	3040.7
270.0	966.3	3170.3
315.0	948.1	3110.6
Average:	925.1	3035.1
Average (9) radials:	923.9	3031.2
Average (12) radials:	924.2	3032.2
Average (18) radials:	924.1	3031.8
Average (24) radials:	924.2	3032.2
Average (36) radials:	924.2	3032.2
Average (72) radials:	924.2	3032.2

August 6, 1992 Exhibit # 1

Section V-B, 15 Of FCC Form 340

Southwest Educational Media

Odessa Texas CRS #6

Channel 213 Class C2

Bearing	Average Terrain Radial (ft/mt)	Radiation Center A.A.T. (ft/mt)	3.16 mV/m (70 dBu) (mi/km)	1 mV/m (60 dBu) (mi/km)
0	3038.4/ 926.1	448.8/ 136.8	12.1/ 19.4	20.5/ 32.8
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90	2926.5/ 892.0	560.7/ 170.9	13.6/ 21.8	22.6/ 36.2
135	2988.8/ 911.0	498.4/ 151.9	12.8/ 20.5	21.5/ 34.4
180	3036.1/ 925.4	451.1/ 137.5	12.2/ 19.5	20.6/ 33.0
225	3040.7/ 926.8	446.5/ 136.1	12.1/ 19.4	20.5/ 32.8
270	3170.3/ 966.3	316.9/ 96.6	10.2/ 16.3	17.6/ 28.2
315	3110.6/ 948.1	376.6/ 114.8	11.1/ 17.8	19.0/ 30.4

The Center Of Radiation Above Mean Sea Level is 3487.2 Feet or 1062.9 Meters

The Average Terrain Elevation is 3035.2 Feet or 925.1 Meters

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